



# INVESTMENT ASSIGNMENT SUBMISSION

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# **Abstract**

Spark Funds, an asset management company wants to make decision about investment.

The company intends to select the **best sector**, **country and suitable funding type** for their investments.

The main constraints for the investment are

- 1. Investment in the range 5-15million USD per round of investment.
- 2. Only English –speaking countries to be considered for investment





## **Approach**

#### 1. Data acquisition

• We have taken the data from **crunchbase.com** in the form of **companies** db(companies details), **rounds2** db(funding type and amount) and **mapping** csv(map categories to **8 top level sectors and other category**).

#### 2. Data preparation and clean-up

- Create a master data frame with merge of companies and rounds2 db on "company\_permalink".
- Clean up the master df by **dropping** rows with empty values in any of raised amount, category list and country code.

#### 3. Analysis

- 1. Investment type analysis
- 2. Country analysis
- 3. Sector analysis

#### 4. Decision making

• Arrive at a suitable investment option for the company.





## Investment Type Analysis

- Objective of the company is to invest in the range 5-15 million USD per round.
- Average funding across the types venture, seed, angel and private equity
- Pick the average funding as the most representative value and which falls in the range 5-15million USD





## **Country Analysis**

- Objective is to pick the country which is **most funded.**
- The country selected should be **English speaking**.
- Prepare a list of top 9 countries in order of total investments received.
- Out of the top 9 list, pick the top 3 countries where English is an official language.





## Sector Analysis

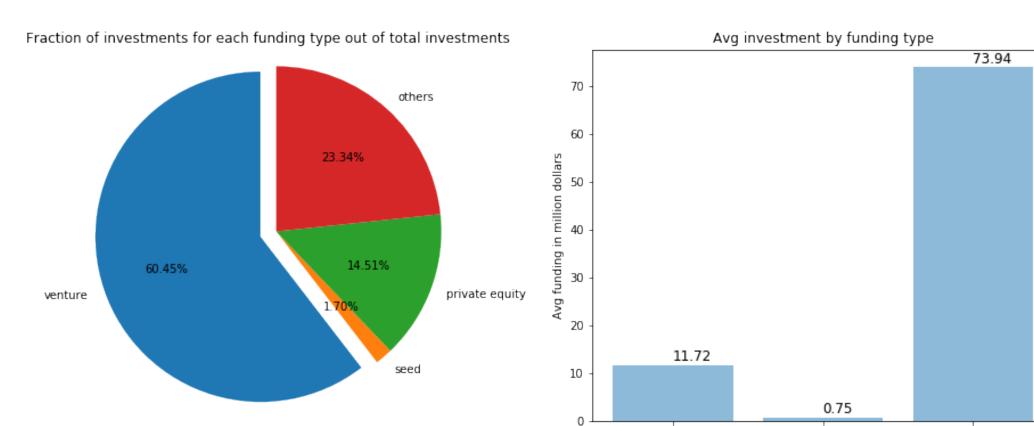
- Objective is to find the most heavily invested sector for the selected funding type and countries.
- Prepare a column representing the **primary sector** of a particular company.
- Using mapping csv, prepare a column representing the **main sector** out of the 8 sectors for each company.
- For each of the three countries selected, pick the sectors receiving highest funding of type selected from investment type analysis and investments in the range of 5-15million USD.





#### Results – Investment Type

From the analysis – **Venture funding** is most suitable, as its average funding is in the range 5-15million USD. And it is also the most representative investment type with 60.45% funding out of total investments.



venture

seed

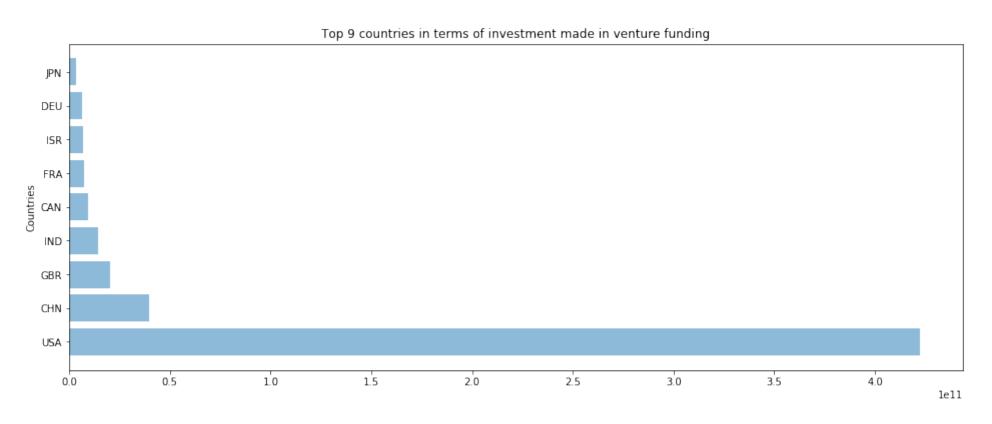
private equity





## Results – Country

From the analysis – **USA, GBR and IND** are the most suitable English speaking countries as represented by the total investments received in **venture funding** in these countries.

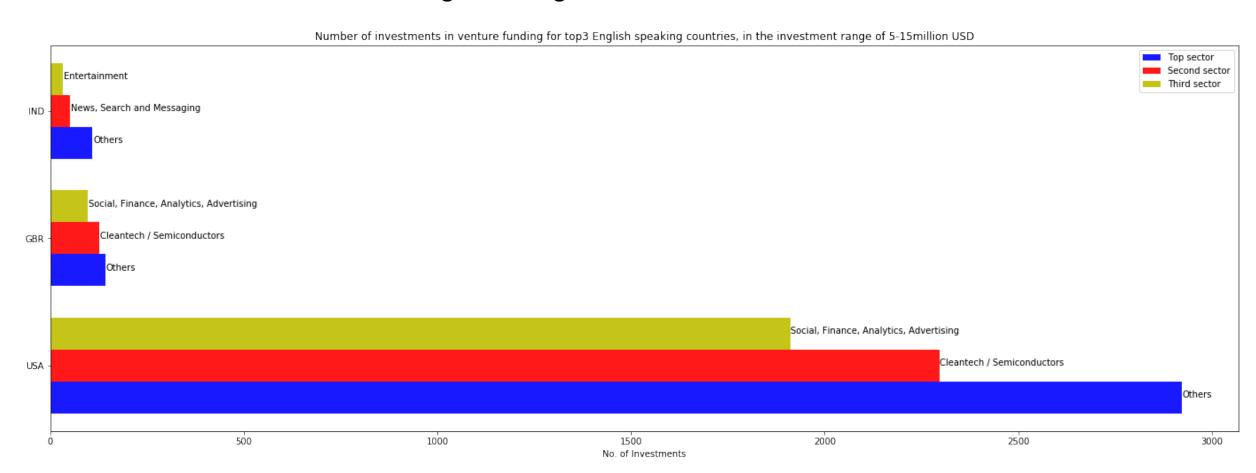






#### Results - Sector

From the analysis – following are the **top 3 sectors in the top 3 suitable countries** for the relevant **venture funding in the range of 5-15 million USD**.







#### Conclusion

From the analysis and the ensuing results:

It is clear that

- Venture funding is the most suitable investment type.
- USA, GBR and INR are the most suitable countries to invest.
- And the top 3 sectors in each of these countries to invest in are
  - USA Others, Cleantech/Semiconductors, Social Finance Analytics Advertisements
  - GBR Others, Cleantech/Semiconductors, Social Finance Analytics Advertisements
  - IND Others, News Search and Messaging, Entertainment